# B combinator

# Join the Healthtech Revolution

## Erik Brieva

Fintech

Cleantech

Foodtech

Legaltech
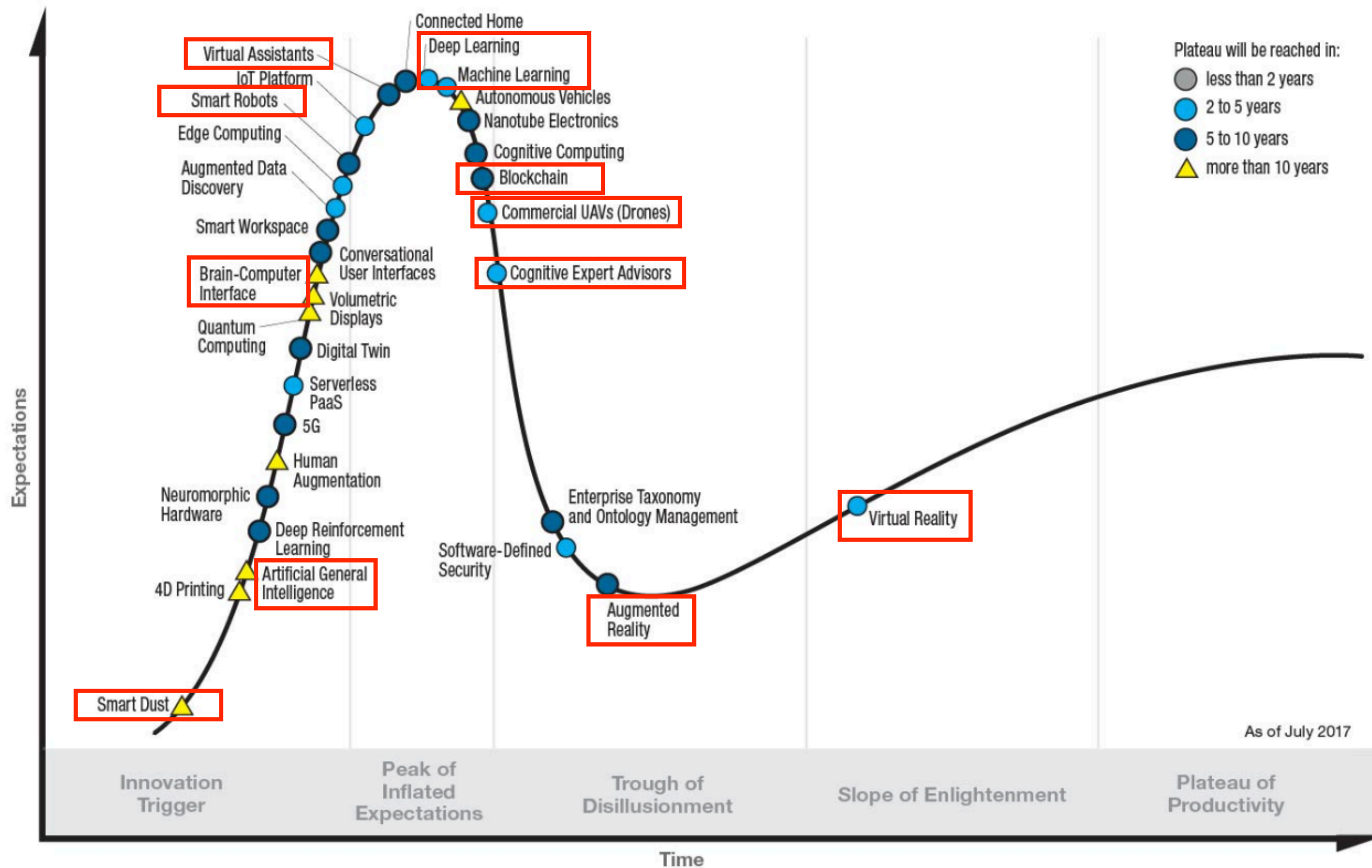
Proptech
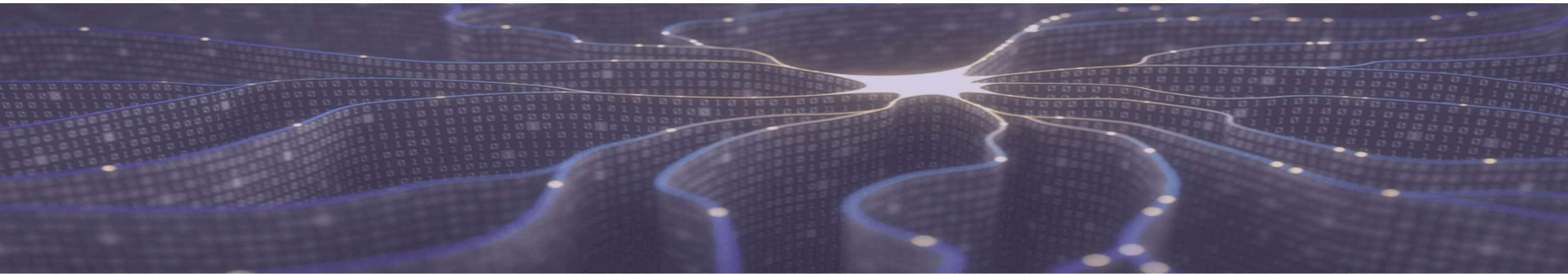
**Healthtech**

Adtech

Retailtech

Regtech

Insurtech

Biotech

Edutech

Growth in the global digital health market
is anticipated to rise at a CAGR of 13.4%,
from $179.6 billion in 2016 to reach $536 billion by 2025,
according to Transparency Market Research (TMR).

Gartner Hype Cycle for Emerging Technologies, 2017

# Artificial Intelligence

- Diagnosis of deseases: accurate, faster and cheaper
- Personalized treatments
- Decision making: disease prevention, accurate effective treatments, learning from past knowledge, evaluating outcomes, and prioritizing those in more urgent need
- Virtual assistants
- Genomic Data Mapping and Analysis for Personalized Healthcare and Precision Medicine
- Improve gene editing by predicting the degree of effects during the application of CRISPR
- Develop drugs faster
  - Identify target molecules for intervention
  - Discover drug candidates
  - Speed up clinical trials
  - Biomarkers discovery for diagnosing the disease
- Automated Report Generation
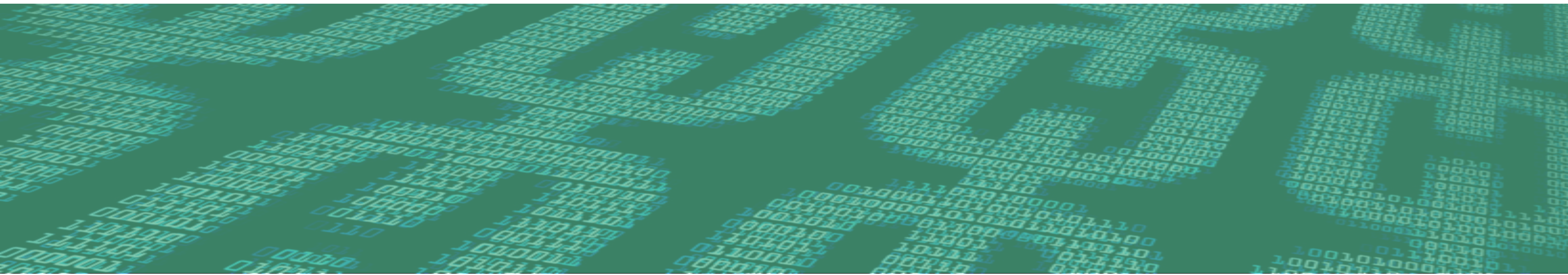
> Health information exchanges, placing the patient at the center of the health care ecosystem by disintermediating the electronic medical records and increasing the security, privacy, and interoperability of health data.
> Healthcare data management
> Analytics: impacting on all three pillars of analytics: data, model, and computation
> Drug supply chain management
> Clinical research and data sharing
> Clinical trials management
> Prescription management
> Drug discovery and pharmaceutical research
> Consensus and smart contract
> Billing claims management
> Telemedicine: by introducing a trust layer between patients and healthcare professionals
> Consulting and Blockchain as a service (BaaS)

# Virtual & Augmented Reality

> Relaxing and wellbeing of hospitalized patients
> Automated image diagnosis
> Virtual assistants
> Remote presence: using a remote presence robot, doctors engage with patients and staff without actually being there
> Simulation-based surgical exploration
> Mental health and psychological therapy
> Physical fitness and therapy
> Restoring low vision
> Enhancing physicians care to elderly
> Speeding up recovery after traumatic brain injury
> Autism therapy
> Training
> Medical marketing
> Deseas awareness
> Collaborative medical teams

# Robotics

> Surgical assistants: robot-assisted surgery
> Rehabilitation robots
> Exoskeletons
> Endoscopy
> Telepresence physicians use robots to help them examine and treat patients in rural or remote locations
> End-of-life care: remind elderly of daily tasks, tracking progress, having conversations and socialising with them
> Neurosurgery assistance, positioning a digital microscope
> Bone cutting and ablation
> Therapeutic massage
> Clinical training robot
> Lab automation: research and development
> Medical transportation
> Sanitation and disinfection robots
> Prescription dispensing systems
> Medical device packaging
> Therapeutic animal robots

# IoT, Wearables & Smart Dust



- Diagnostic procedures without surgery
- Provide feedback about brain functionality.
- Allow people with disabilities interact with tools that help them live independently.
- Monitor vital signs of elderly and sick
- Monitor tiny muscular movements in patients
- Monitor internal process of organs
- Track the healing process of internal injuries,
- Live cell-based sensing to understand the effect of medicines,
- Enable health care professionals to take remedial action based on continual data from the system
- Sensing the heat difference between the patient's body and surrounding air
- Sensing biohazards, smells, temperature, pathogens,…
- Diet management
- Memory aid
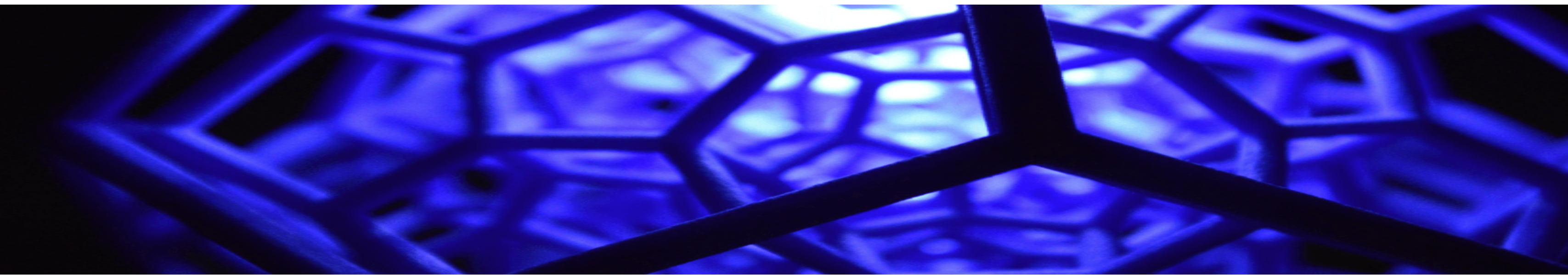
> Customized prosthetics
> Pre-surgical model prototyping, creating patient-specific organ replicas that surgeons can use to practice on before performing complicated operations
> Manufacturing of medical tools and devices (like sterile surgical instruments, such as forceps, hemostats, scalpel handles and clamps)
> Bioprinting to create artificial living tissues and organoids
> Dental restoration, implants, orthodontics, surgical guides
> Hearing aids

# Barcelona Healthtech Startups

| | | |
|---|---|---|
| NE® | Neuroelectrics | Brain stimulation and treatment |
| | REIXMOR | Medical research and innovation platform using AI |
| aware | Aware.doctor | Medical education with interactive videos & VR |
| PrintingHealth | Printing Health | 3D printing for surgical practice and training |
| neuro Personal Trainer® | GNPT Brainhealth | Cognitive telerehabilitation platform |
| VRPharma | VR Pharma | Patient wellbeing and relaxing using VR |
| Social Diabetes | Social Diabetes | Diabetes management app |
| HumanITcare | Human IT Care | Data collection and analytics platform using AI |
| | Saluscoop | Medical records database |
| ALVUM | ALVUM / Indiehealth | B.ENERGY is an app for IBS sufferers |

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# CONTACT

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